

Response to the November 30, 2006 Office Action  
US Patent Application No. 09/863,148  
Docket No. 80-20689472 (formerly 6208-21)

### Remarks

The undersigned's Remarks are preceded by quotations of related comments of the Examiner, presented in small bold-faced type.

Applicant respectfully notes that in the "Conclusion - Response to Arguments" section of the Office Action mailed on November 30, 2006 (the "Present Office Action,") the Examiner states that (emphasis added):

**Applicant's arguments filed 8/18/06 have been fully considered but they are moot in view of new grounds of rejections.**  
Present Office Action, pg. 13.

However, upon review of the "Claim Rejections – 35 USC § 103" section, as well as the remainder of the "Conclusion - Response to Arguments" section, the undersigned respectfully notes that the Examiner's arguments concerning Mosler et al. (US Patent No. 6,304,858, hereinafter called "Mosler") are word for word the same as those presented in the Office Action mailed on March 13, 2006 (the "**Previous Office Action.**") The arguments presented by Applicant concerning Mosler in the Response to the Previous Office Action filed on August 14, 2006 (the "**Previous Response**") remain, therefore, unanswered. The MPEP states:

#### 707.07(f) Answer All Material Traversed

In order to provide a complete application file history and to enhance the clarity of the prosecution history record, an examiner must provide clear explanations of all actions taken by the examiner during prosecution of an application.

Where the requirements are traversed, or suspension thereof requested, the examiner should make proper reference thereto in his or her action on the amendment.

Where the applicant traverses any rejection, the examiner should, if he or she repeats the rejection, take note of the applicant's argument and answer the substance of it.

MPEP 707.07(f)

And adds:

¶ 7.38 Arguments Are Moot Because of New Ground(s) of Rejection

Applicant's arguments with respect to claim [1] have been considered but are moot in view of the new ground(s) of rejection.

**Examiner Note**

The examiner must, however, address any arguments presented by the applicant which are still relevant to any references being applied.

MPEP 707.07(f)

Applicant respectfully notes that the undersigned of the Previous Response, respectfully traversed the Examiner's rejection (page 2, 7<sup>th</sup> paragraph.) Applicant respectfully requests that the Examiner consider and respond to each of Applicant's arguments concerning Mosler presented in the Previous Response. For the Examiner's convenience, the arguments concerning Mosler, as filed in the Previous Response are presented again in Section B of this Response.

A. Remarks concerning Mosler presented in the Previous Response

**Claim Rejections - 35 USC § 103**

As per claim 1, Mosler discloses a method by which an entity manages an exposure to an economic risk associated with a commodity, comprising the steps of forming a model portfolio of said exposure, said model representing cash flows; forming a hedging portfolio for said exposure, said hedging portfolio representing cash flows, periodically combining said cash flows of said model portfolio and said hedging portfolio (see column 7 lines 23-51 and column 8 lines 59-65 and column 11 lines 18-31 and column 14 lines 5-21, lines 64-67 and column 15 lines 1-34, 58-65).

Mosler fails to explicitly teach providing a payout based on said combined cash flows.  
Previous Office Action, 2006, pg. 2

Applicant respectfully notes that Mosler does not disclose "[a] method by which an entity manages an exposure to an economic risk associated with a commodity, comprising the steps of: forming a model portfolio of said exposure, said model representing cash flows" (emphasis added.) Mosler

discloses a method for trading and settling a contract having a price based on any preselected interest rate swap (IRS) curve (Mosler, col.1, lines 19-22.) Mosler limits its disclosure to this type of transaction and does not teach or suggest a method to manage an exposure to an economic risk associated with other types of commodities. Applicant respectfully brings to the attention of the Examiner that “commodity” is defined in Applicant’s specification as “including, by way of non-limiting example, gas, oil, refined products, metals and financial instruments such as foreign exchange and interest rate futures contracts” (Applicant’s disclosure, para. 0042.) In accordance with this, Applicant’s disclosure teaches, *inter alia* through various examples of non-financial commodities, how the variables involved in the production and marketing of these commodities are associated with financial risk, and how this financial risk can be modeled and hedged. There is no teaching or suggestion in Mosler about how to model exposure to an economic risk associated with a “commodity,” as such is defined in Applicant’s disclosure, since Mosler’s disclosure concerns a very narrow field, with a single type of transaction.

In addition, Mosler does not teach or suggest either forming a model “portfolio” or forming a hedging “portfolio” of an exposure to an economic risk associated with a commodity. Given that Mosler’s disclosure is uniquely concerned with IRS contracts, Mosler uniquely discloses pricing units that provide the model price for the two series of cash flows involved in the IRS contracts (Mosler, col. 7, lines 23-51,) that is, the two series of payments between the two types of interests being swapped (i.e. two variables between two parties, that is to say, one variable per party.) Mosler does not therefore teach or suggest how to form a model “portfolio” or a hedging “portfolio.” As taught by Applicant, at least one, but typically more variables are involved in the production and marketing of a commodity, and all of these variables create the risk exposure that must be modeled and taken into account to be able to price and hedge the production of the commodity, hence the reference to the model or hedging “portfolio.”

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For similar reasons, Mosler does not teach “forming a hedging portfolio for said exposure,” since Mosler is only concerned with “IRS contracts” and not “hedging” of the exposure of a commodity, which, as disclosed in Applicant’s specification can involve an unlimited number of hedging resources, including forward sale and purchase of non-financial commodities (Applicant’s disclosure, para. 0005 and 0006.)

For at least the foregoing reasons, and the Examiner’s own acknowledgement that Mosler fails to explicitly teach providing a payout based on said combined cash flows, Mosler cannot render Applicant’s invention obvious.

**B. Additional Remarks in Response to the Present Office Action**

**Claims 1-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mosler et al. (Hereinafter Mosler U.S. Patent 6,304, 858) in view of Pilipovic U.S. Patent NO: 6,456,982. Present Office Action, pg. 2.**

Applicant respectfully traverses the Examiner’s rejection. As the MPEP recites:

*“To establish a prima facie case of obviousness, three basic criteria must be met. First, there must be some suggestion or motivation, either in the references themselves or in the knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine reference teachings. Second, there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all the claim limitations. The teaching or suggestion to make the claimed combination and the reasonable expectation of success must both be found in the prior art, and not based on applicant's disclosure. In re Vaeck, 947 F.2d 488, 20 USPQ2d 1438 (Fed. Cir. 1991).”*

MPEP § 2142.

Applicant respectfully submits that the Examiner has not established a prima facie case of obviousness because there is no motivation to modify or combine the reference teachings and even if the references were combined, none of the prior art references, alone or in combination, describe or suggest all of the claimed limitations of the present invention.

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(a) Even if the references were combined, none of the prior art references, alone or in combination, describe or suggest all of the claimed limitations of the present invention:

As recited by the MPEP:

*"The initial burden is on the examiner to provide some suggestion of the desirability of doing what the inventor has done." To support the conclusion that the claimed invention is directed to obvious subject matter, either the references must expressly or impliedly suggest the claimed invention or the examiner must present a convincing line of reasoning as to why the artisan would have found the claimed invention to have been obvious in light of the teachings of the references." Ex parte Clapp, 227 USPQ 972, 973 (Bd. Pat. App. & Inter. 1985)."*

MPEP § 2142.

Even if Mosler and Pilipovic were combined, none of the references, alone or in combination, describe or suggest all of the claimed limitations of at least the independent claims of the present invention: claims 1, 24 and 39.

#### CLAIM 1

Claim 1 recites:

1. A method by which an entity manages an exposure to an economic risk associated with a commodity, comprising the steps of:
  - forming a model portfolio of said exposure, said model representing cash flows;
  - forming a hedging portfolio for said exposure, said hedging portfolio representing cash flows;
  - periodically combining said cash flows of said model portfolio and said hedging portfolio; and
  - providing a payout based on said combined cash flows.

Mosler:

Applicant respectfully submits that the for the arguments submitted in the Previous Response, Mosler does not render Applicant's invention obvious.

Pilipovic:

With respect to Pilipovic, the Examiner states:

**However Pilipovic discloses financial products that commonly use simulation include: for Interest Rate Markets—mortgage-rate contingent derivative products (e.g., derivative**

**products for which future cash flows are derived as functions of future mortgages rates as ‘spot prices’); path-dependent options, swaps, and swaptions (these are derivative products having future cash flows derived as functions of future London Inter Bank Offering Rates as ‘spot prices’; and, counter-party risk exposure calculations (her, the ‘spot prices’ can be any of the foregoing, but are combined with the additional default information of the counterparty); for Commodities-path-dependent options (which are derivative products having cash flows derived as functions of more than one future spot price, and where the future spot price is the price of the commodity at the corresponding future date), swaps and swaptions (these are derivative products having cash flows derived as functions of future spot prices, the spot prices being the commodity prices); and, counter-party-risk exposure calculations (which are functions of commodity spot prices and counterparty risks, but applied to commodity-related products); and for Equities –hedging scenarios (these are cash flows which result from using a particular market hedging strategy, with the cash flows derived as functions specific to the hedging strategy and of future equity prices as the ‘spot prices’), and counter-party-risk exposures. (see column 2 lines 44-67 and column 7 lines 50-67 and column 8 lines 1-67 and column 10-22 lines 1-67).**

Present Office Action, pg. 2-3.

Applicant respectfully submits that Pilipovic does not disclose or suggest at least the limitation “providing a payout based on said combined cash flows”, as required by claim 1. Pilipovic discloses a system for calculating projected market data for each of a plurality of variables, and for generating output including the projected data. Pilipovic’s system can be applied to simulating the behavior of pricing and hedging financial products, and for supporting financial decisions, such as whether to make a particular transaction. Pilipovic, however, does not disclose any sort of payout system. Pilipovic is simply concerned with simulating financial data to generate projections. Pilipovic is not concerned with managing financial transactions, and in agreement with this, Pilipovic does not disclose a payout system. Applicant respectfully submits that the Examiner’s assertions regarding the matter disclosed by Pilipovic are not relevant to Applicant’s claimed invention, and therefore cannot be used to support an obviousness argument against Applicant’s claims.

Therefore, Pilipovic does not disclose at least the limitation of claim 1, “providing a payout based on said combined cash flows.”

The Examiner has stated:

**Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Mosler to include providing a payout based on said combined cash flows taught by Pilipovic in order to manage securities that are collateralized by mortgage obligations.**

Present Office Action, pg. 3.

For at least the foregoing arguments, Applicant respectfully submits that even if Mosler and Pilipovic were combined, the combination of these two references does not teach or render obvious all the limitations of at least claim 1, and therefore, it would not have been obvious to one of skill in the art at the time the invention was made to modify the teachings of Mosler to include providing a payout based on said combined cash flows, as stated by the Examiner.

#### CLAIMS 24 and 39

Claim 24 recites:

24. A system by which an entity manages a portfolio of exposures to an economic risk associated with a commodity, comprising:

- a portfolio modeling engine, said portfolio modeling engine receiving said portfolio of exposures from said entity and forming a model portfolio representing cash flows;

- a hedging modeling engine for receiving at least one hedging transaction, said hedging modeling engine forming a hedging portfolio representing cash flows based on said at least one hedging transaction and said model portfolio;

- a tracking portfolio generator, said tracking portfolio generator receiving said model portfolio and said hedging portfolio and combining said cash flows of said model portfolio and said hedging portfolio; and

- a payout manager, said payout manager providing a payout based on said combined cash flows.

Claim 39 recites:

39. A system by which an entity manages a portfolio of exposures to an economic risk associated with a commodity, comprising:

- a transaction manager, said transaction manager executing at least one transaction between an institution and said entity, said at least one transaction forming a model portfolio representing cash flows;

- a hedging module for executing at least one hedging transaction, said at least one hedging transaction forming a hedging portfolio representing cash flows;

- a tracking portfolio generator, said tracking portfolio generator receiving said model

portfolio and said hedging portfolio and combining said cash flows of said model portfolio and said hedging portfolio; and  
a payout manager, said payout manager providing a payout based on said combined cash flows.

Claims 24 and 39 are drawn to systems that implement the method of the invention, and contain at least the same limitation terms from claim 1 that, as Applicant has argued above, are not disclosed or suggested by Mosler, Pilipovic, or Mosler in view of Pilipovic. Thus, for at least this reason, Applicant respectfully submits that Mosler in view of Pilipovic cannot render Claims 24 or 39 obvious.

Claims 2-23, 25-38 and 40-55 depend directly or indirectly from claims 1, 24, or 39 and define further features and structure of the system. Accordingly, these claims are not obvious and are thus patentable for at least the reasons noted above with respect to claims 1, 24 and 39 as well as for the additional features recited therein. Notice to the effect that dependent claims 2-23, 25-38 and 40-55 are in condition for immediate allowance is respectfully requested.

(b) There is no motivation to modify or combine the reference teachings:

The MPEP states:

*"There are three possible sources for a motivation to combine references: the nature of the problem to be solved, the teachings of the prior art, and the knowledge of persons of ordinary skill in the arts." In re Rouffet, 149 F.3d 1350, 1357, 47 U.S.P.Q.2d 1453, 1457-58 (Fed. Cir. 1998).*

MPEP § 2143.01.

None of these three possible sources have been demonstrated in the Present Office Action. Neither Mosler nor Pilipovic provide a suggestion or motivation to combine each other. The only grounds offered by the Examiner for combining the cited references is "it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the teachings of Mosler to include



providing a payout based on said combined cash flows taught by Pilipovic in order to manage securities that are collateralized by mortgage obligations” (Present Office Action, page 3.) A blanket statement concerning “one with ordinary skill in the art” is a highly subjective and unsubstantiated statement that does not meet the Examiner’s obligation to succinctly establish a prima facie case of obviousness. The Federal Circuit has held that it is inappropriate to rely solely on ‘common sense’ or ‘basic knowledge’ in the art as the principal evidentiary basis for a rejection, without evidentiary support in the record. MPEP § 2144.03(B) (citing *In re Zurko*, 258 F.3d 1379, 1386 (Fed. Cir. 2002) (“holding that general conclusions concerning what is ‘basic knowledge’ or ‘common sense’ to one of ordinary skill in the art without specific factual findings and some concrete evidence in the record to support these findings will not support an obviousness rejection.”)).

Thus, Applicant respectfully submits that it would have not been obvious to combine Mosler – a system for trading interest rate swaps – with Pilipovic – a system for generating and outputting projected data regarding pricing and hedging of financial products. The undersigned respectfully submits that a conclusion of the “obviousness” should be supported by some objective evidence. However, the Examiner has provided no objective support for his conclusion.

Where the Examiner’s combination requires that the cited references be modified to support the Examiner’s claims of obviousness, the Examiner’s burden is greater and there must be some objective reason to combine the teachings of the references. See MPEP § 2143.01.

*A statement that modifications of the prior art to meet the claimed invention would have been “well within the ordinary skill of the art at the time the claimed invention was made” because the references relied upon teach that all aspects of the claimed invention were individually known in the art is not sufficient to establish a prima facie case of obviousness without some objective reason to combine the teachings of the references. Ex parte Levengood, 28 USPQ2d 1300 (Bd. Pat. App. & Inter. 1993); see also In re Kotzab, 217 F.3d 1365, 1371, 55 USPQ2d 1313, 1318 (Fed. Cir. 2000) (Court reversed obviousness rejection involving technologically simple concept because there was no finding as to the principle or specific understanding within the knowledge of a skilled artisan that would have motivated the skilled artisan to make the claimed invention); Al-Site Corp. v. VSI Int’l Inc., 174 F.3d 1308, 50 USPQ2d 1161 (Fed. Cir.*

*1999) (The level of skill in the art cannot be relied upon to provide the suggestion to combine references.)*

MPEP § 2143.01 (emphasis added.)

The undersigned respectfully suggests that the Examiner has not demonstrated any of the three possible sources for a motivation to modify the Mosler reference with Pilipovic, whether in the nature of the problem to be solved, the teachings of the prior art, or the knowledge of persons of ordinary skill in the arts.

The undersigned submits that this appears to be a case in which the Examiner's conclusion of "obviousness" is merely based on an application of hindsight reasoning gained by the Examiner's review of the present application. Such hindsight reasoning is impermissible.

As the MPEP notes:

*"The tendency to resort to "hindsight" based upon applicant's disclosure is often difficult to avoid due to the very nature of the examination process. However, impermissible hindsight must be avoided and the legal conclusion must be reached on the basis of the facts gleaned from the prior art." (MPEP § 2142); and*

*"When applying 35 U.S.C. 103, the following tenets of patent law must be adhered to:(...)  
(C) The references must be viewed without the benefit of impermissible hindsight vision afforded by the claimed invention (...) Hodosh v. Block Drug Co., Inc., 786 F.2d 1136, 1143 n.5, 229 USPQ 182, 187 n.5 (Fed. Cir. 1986)."*

MPEP § 2141 II

Thus, the Examiner's conclusion that it would have been obvious to one of ordinary skill in the art is unsupported by the cited Mosler and Pilipovic references. In fact, the undersigned respectfully suggests that the Examiner could not find such motivation because the cited references are not directed to the subject matter of the claimed invention.

Applicant respectfully submits that for the foregoing reasons, neither Mosler nor Pilipovic alone or in combination, expressly or impliedly suggest the claimed invention. Applicant also respectfully submits that for the foregoing reasons the Examiner has not presented a convincing line of reasoning as to why the artisan would have found the claimed invention to have been obvious in light of the teachings of

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the references. Therefore, The Examiner's rejection is respectfully traversed. The undersigned respectfully requests that the Examiner either withdraw his rejection of the claims or provide some objective evidence of a teaching found in the prior art to make the combination made by the Examiner.

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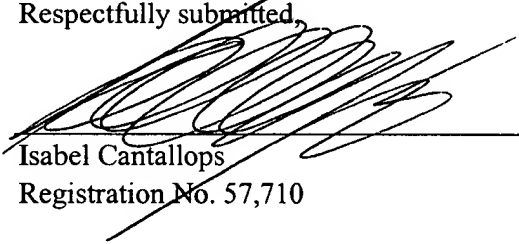
Closing

Claims 1-55 are now pending and believed to be in condition for allowance. Applicant respectfully requests that all pending claims be allowed.

Please apply any credits or excess charges to our deposit account number 50-0521.

Date: April 30, 2007

Respectfully submitted,



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